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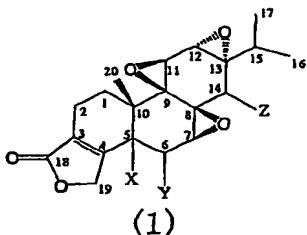
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**(54) Title: TRIPTOLIDE DERIVATIVES AND THEIR USE**

(54) 发明名称: 雷公藤内酯醇衍生物及其应用



**(57) Abstract:** Triptolide derivatives of Formula (I), their pharmaceutically acceptable salts and optical isomers, Formula (I), (wherein, C5 and C6 connect with each other by a C-C single bond or double bond; when C5 and C6 are connected with C-C single bond, X and Y represents independently hydrogen, oxygen, hydroxy, halogen, lower alkoxy, lower alkylamino, mercapto, lower alkylthio, the group of formula -OCOR, -OSO<sub>2</sub>OR or -OPO(OH)<sub>2</sub>, each of which is attached to C5 and C6, R represents -(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>Na, -(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>K or -(CH<sub>2</sub>)<sub>n</sub>CH<sub>3</sub>, wherein n = 1-6; Z represents hydrogen, oxygen, hydroxy, halogen, lower alkoxy, lower alkylamino, mercapto, lower alkylthio, the group of formula -OCOR, -OSO<sub>2</sub>OR or -OPO(OH)<sub>2</sub>, each of which is linked at C14-position, R represents -(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>Na, -(CO<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>K, or -(CH<sub>2</sub>)<sub>n</sub>CH<sub>3</sub>, wherein n = 1-6; wherein, the "—" linked with X, Y, and Z represents "—" or "....."; provided that X and Y cannot both be hydrogen atom at the same time), the methods for preparing them and their use as antiphlogistic agent, immunosuppressive agent or therapeutic agent for other related diseases.